

Recovery Plan Action Status

Plan Name: South Florida Multi-Species Recovery Plan (68 spp.)

Plan Status: Final

Plan Date: 18-May-99

Lead Agency: USFWS

Lead Office: South Florida Ecological Services Field Office

**(772)
562-3909)**

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Florida ziziphus (Ziziphus celata)	1	zice-h1.1	Secure habitat through acquisition, landowner agreements, and conservation easements for Florida ziziphus (Ziziphus celata).	Partially Complete	Prior to FY 1995		Florida Department of Environmental Protection, Non-governmental organizations	Acquisition	Internal Administrative	Cost dependent upon specific site and amount of land acquired. Action lead(s): FWS
Florida ziziphus (Ziziphus celata)	2	zice-h1.2.1	Conduct prescribed burns.	Ongoing Current	FY 2007		Florida Division of Forestry, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres burned. Action lead(s): DOF, Archbold Biological Station
Florida ziziphus (Ziziphus celata)	3	zice-h1.2.2	Control and eliminate exotic and invasive plants and animals.	Ongoing Current	FY 2007		Florida Department of Environmental Protection, Florida Department of Transportation, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Florida Division of Forestry, Water Management Districts	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 2.0/acre); Total cost dependent upon number of acres infested with exotics. Action lead(s): DOF, Archbold Biological Station, private
Florida ziziphus (Ziziphus celata)	3	zice-h1.2.3	Control access to areas where listed plants are growing.	Ongoing Current	FY 2007		Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Task currently conducted and cost is included in responsible agency's budget. Action lead(s): DOF
Florida ziziphus (Ziziphus celata)	2	zice-h2.1	Restore natural fire regime.	Ongoing Current	FY 2007		Florida Division of Forestry, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Cost is per acre (ex. 1.0/acre); Total cost dependent upon number of acres burned. Action lead(s): DOF
Florida ziziphus (Ziziphus celata)	3	zice-h3.0	Conduct habitat-level research projects.	Ongoing Current	FY 2007		Archbold Biological Station	Research: Habitat Requirements	Contract	Action lead(s): private

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Florida ziziphus (Ziziphus celata)	2	zice-h4.0	Monitor habitat/ecological processes.	Ongoing Current	FY 2007		Archbold Biological Station	Work type not yet selected	Labor type not yet selected	Action lead(s): Archbold Biological Station
Florida ziziphus (Ziziphus celata)	3	zice-h5.0	Provide public information about scrub and its unique biota.	Ongoing Current	FY 2007		U.S. Fish and Wildlife Service, Florida Department of Environmental Protection, Florida Fish and Wildlife Conservation Commission, Non-governmental organizations, Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS, NGO, private
Florida ziziphus (Ziziphus celata)	2	zice-s1.1.1	Conduct surveys in Polk and Highlands Counties.	Ongoing Current	FY 1995 - FY 1999		Archbold Biological Station	Research: Population Surveys	Labor type not yet selected	Action lead(s): Archbold Biological Station
Florida ziziphus (Ziziphus celata)	2	zice-s1.1.2	Continue surveys for Florida ziziphus on protected lands.	Ongoing Current	FY 1995 - FY 1999		Archbold Biological Station	Research: Population Surveys	Contract, Species Expert	Action lead(s): ABS
Florida ziziphus (Ziziphus celata)	2	zice-s1.2	Maintain distribution of known populations and suitable habitat in GIS database.	Ongoing Current	FY 2007		Archbold Biological Station	Research: Habitat Status	Labor type not yet selected	Action lead(s): Archbold Biological Station
Florida ziziphus (Ziziphus celata)	1	zice-s2.1	Protect privately-owned habitat through acquisition, conservation easements, or agreements with landowners.	Partially Complete	FY 2008		U.S. Fish and Wildlife Service, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Cost dependent upon type of protection provided. Action lead(s): FWS, NGO
Florida ziziphus (Ziziphus celata)	1	zice-s2.2	Protect populations of Florida ziziphus on public lands.	Complete	FY 1995 - FY 1999		Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Cost dependent upon type of protection provided. Action lead(s): DOF
Florida ziziphus (Ziziphus celata)	3	zice-s2.3	Use local or regional planning to protect habitat.	Not Started			U.S. Fish and Wildlife Service, South Florida counties	Work type not yet selected	Labor type not yet selected	Cost included in standard operating procedures of participating agency's budget. Action lead(s): FWS
Florida ziziphus (Ziziphus celata)	1	zice-s2.4.1	Conserve germ plasm.	Complete	FY 2000 - FY 2004	FY 2010	Bok Tower Gardens , Archbold Biological Station, Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Action lead(s): FWS, private

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Florida ziziphus (Ziziphus celata)	1	zice-s2.4.2	Maintain ex situ collection.	Ongoing Current	FY 1995 - FY 1999		Bok Tower Gardens , Private industry, landowners, etc.	Work type not yet selected	Labor type not yet selected	Action lead(s): Bok Tower Gardens
Florida ziziphus (Ziziphus celata)	1	zice-s2.5.1	Establish a protocol for reintroduction.	Complete	FY 1995 - FY 1999	FY 2010	Archbold Biological Station, Private industry, landowners, etc.	Management: Reintroduction	Labor type not yet selected	Action lead(s): private
Florida ziziphus (Ziziphus celata)	1	zice-s2.5.2	Locate potential (re)introduction sites.	Complete	FY 2007	FY 2010	Florida Fish and Wildlife Conservation Commission, Florida Division of Forestry, Archbold Biological Station	Management: Reintroduction	Labor type not yet selected	Action lead(s): private
Florida ziziphus (Ziziphus celata)	1	zice-s2.5.3	(Re)introduce plants to protected sites.	Partially Complete	FY 2000 - FY 2004		Archbold Biological Station	Management: Reintroduction	Labor type not yet selected	Action lead(s): private
Florida ziziphus (Ziziphus celata)	2	zice-s2.6.1	Initiate section 7 consultation when applicable.	Ongoing Current			U.S. Bureau of Land Management, U.S. Department of Agriculture, U.S. Geological Survey, Biological Resources Division, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, Natural Resources Conservation Service , United States Coast Guard , U.S. Air Force	Work type not yet selected	Labor type not yet selected	Cost included in standard operating procedures of Federal agency's budget. Action lead(s): All Federal agencies
Florida ziziphus (Ziziphus celata)	3	zice-s2.6.2	Enforce take and trade prohibitions.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Florida Department of Agriculture and Consumer Services/Division of Plant Industry	Work type not yet selected	Labor type not yet selected	Cost included in standard operating budgets of participating agencies. Action lead(s): FWS, FDACS/DPI
Florida ziziphus (Ziziphus celata)	2	zice-s3.1	Continue research to determine biology and demographic information.	Ongoing Current	FY 1995 - FY 1999		Archbold Biological Station	Management: Population Monitoring	Labor type not yet selected	Action lead(s): private, universities
Florida ziziphus (Ziziphus celata)	1	zice-s3.2	Continue research to assess the reproductive potential of Florida ziziphus in the wild.	Partially Complete	FY 2007		Archbold Biological Station	Research: Population Assessment	Contract	Action lead(s): private, universities

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Florida ziziphus (Ziziphus celata)	1	zice-s3.3	Continue research to assess management requirements of Florida ziziphus.	Partially Complete	FY 2007		Archbold Biological Station	Research: Management Techniques	Contract	Action lead(s): private
Florida ziziphus (Ziziphus celata)	1	zice-s4.1	Evaluate the effectiveness of the monitoring protocol used to assess population trends for Florida ziziphus.	Complete	FY 2009	FY 2011	U.S. Fish and Wildlife Service, Non-governmental organizations, Florida Division of Forestry	Work type not yet selected	Labor type not yet selected	Action lead(s): NGO, private
Florida ziziphus (Ziziphus celata)	2	zice-s4.2	Monitor and detect changes in demographic characteristics.	Ongoing Current	FY 1995 - FY 1999		Archbold Biological Station	Work type not yet selected	Labor type not yet selected	Action lead(s): DOF, NGO, private
Florida ziziphus (Ziziphus celata)	1	zice-s4.3	Monitor the effects of various land management actions on Florida ziziphus.	Ongoing Current	FY 2007		Archbold Biological Station	Research: Management Techniques	Contract	Action lead(s): DOF
Florida ziziphus (Ziziphus celata)	1	zice-s4.4	Continue to work with private landowners.	Ongoing Current	FY 1995 - FY 1999		Archbold Biological Station	Management: Predator and Competitor Control	Labor type not yet selected	Action lead(s): Archbold Biological Station
Florida ziziphus (Ziziphus celata)	2	zice-s4.5	Monitor introduced plants.	Ongoing Current	FY 2000 - FY 2004		Archbold Biological Station	Research: Reintroduction	Labor type not yet selected	Action lead(s): FWS, private
Florida ziziphus (Ziziphus celata)	3	zice-s5.0	Provide public information about Florida ziziphus.	Ongoing Current	FY 2000 - FY 2004		Archbold Biological Station	Work type not yet selected	Labor type not yet selected	Action lead(s): private